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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,741	10/06/2005	Shingo Hashimoto	HASH3005/GAL	8515

7590 10/18/2007
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EXAMINER

BONK, TERESA

ART UNIT	PAPER NUMBER
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3725

MAIL DATE	DELIVERY MODE
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10/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/529,741

Applicant(s)

HASHIMOTO ET AL.

Examiner

Teresa M. Bonk

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 14-35 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 14-17, 20-29, and 31-34 is/are rejected.
- 7) ☒ Claim(s) 18, 19, 30 and 35 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 March 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “plural slidable cores” must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Objections

2. Claims 14, 16, and 22 are objected to because of the following informalities: On line 7 of claim 14, the Examiner understands the word “stator” is meant to be “monopole” as described in the specification on page 32, paragraph 0127. With regards to claims 16 and 22, the Examiner understands the “said coil wind frames” is meant to be “said coil wind frame” as described in the specification on page 30, paragraph 0117. Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 20-25, 28, and 33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

With regards to claim 20, the subject matter for which has not been properly described in the specification is the “plural slidable cores” with coil receiving elements arranged around an outer circumference of each slidable core. With regards to claims 28 and 33, the subject matter for which has not been properly described in the specification is “wherein each coil winding frame comprises a central slidable core.” The specification does have support for a singular extendable core 61 (page 28, paragraph 0112) that advances toward a stator core 82 (page 34,

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paragraph 0135). Therefore, the Examiner will examine with the understanding that there is a singular extendable core 61 incorporated into a stator core 81.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 16 and 22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear how each coil receiving frame 3 has a piston 23. The Examiner understands from Figures 13-17, that each winding jig 2 has coil receiving frames 3 and a piston 23.

5. The following is a quotation of the sixth paragraph of 35 U.S.C. 112:

An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

It appears, in claims 14, 17 and 23, that the applicant may be trying to invoke 35 U.S.C. 112, sixth paragraph; however, the specification fails to support it directly. Claim 14 states, "transfer means for transferring". Claims 17 and 23 state, "means for moving". If the applicant is indeed trying to invoke 35 U.S.C. 112, sixth paragraph, clarification in the specification is needed or it is advised that the applicant remove the "means for" term. For further information see MPEP 2181.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 14-16, 20-22, 26-28, and 31-33 rejected under 35 U.S.C. 102(b) as being anticipated by Hill (US Patent 3,686,735). Hill discloses a coil forming and insertion apparatus for forming a multipole coil of joined plural monopole coils (Figure 10) comprising a winding jig (12), rotatable around a central axis. A winding jig having plural winding frames (14/16), defining a winding axis and receiving loops of wire would thereon, and having a tip face with a fitting slot (24/22/23) extending therefrom in parallel with the winding axis, for receiving tip portions of the coil receiving elements (30) of the inserter jig (10) and forming transfer surfaces. Each winding jig has a piston (34) centrally mounted for reciprocating movement between a retraced position and an advanced position, whereby movement of the piston toward the advanced position serves to transfer the coils to the inserter jig, Column 4 – Column 5, lines 1-20. The inserter jig (10), opposed to the winding jig, for inserting and arranging the multipole coil into a slot extending radially outward from a central opening in a monopole coil and comprises the plural coil receiving elements (30). The inserter jig has a slidable core (84/85/87) and wherein by advancing the slidable core toward the winding jig the multiple coil is transferred to the inserter jig.

8. Claims 14-15, 17, 20-21, 23, 26-27, 29, 31-32 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Barrera (US Patent 6,196,273). Barrera discloses a coil forming and

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insertion apparatus for forming a multipole coil of joined plural monopole coils (Figure 7) comprising a winding jig (1), rotatable around a central axis. A winding jig having plural winding frames (3), defining a winding axis and receiving loops of wire wound thereon, and having a tip face with a fitting slot (Figure 10) extending therefrom in parallel with the winding axis, for receiving tip portions of the coil receiving elements (10) of the inserter jig (9) and forming transfer surfaces. The inserter jig (9), opposed to the winding jig, for inserting and arranging the multipole coil into a slot extending radially outward from a central opening in a monopole coil and comprises the plural coil receiving elements (10). The coil winding frames include an inside portion (8) and an outside portion (3) radially outward of the inside portion relative to the winding axis and means for moving (6) said outside portion relative to said inside portion to change the distance between the outside portion and the inside portion between a winding position for winding the electric wire thereon a release position for removal of the coil after the winding had been completed.

Allowable Subject Matter

9. Claims 24-25 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

10. Claims 18-19, 30, and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and further show the state of the art: US Patents 6,206,052 and 5,647,405.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa M. Bonk whose telephone number is (571) 272-1901.

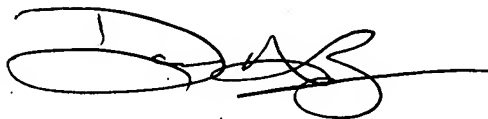
The examiner can normally be reached on M-F 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Banks Derris can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Teresa M. Bonk
Examiner
Art Unit 3725



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